#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Makoto KAWABATA, et al.

Serial Number: Not Yet Assigned

Filed: April 20, 2004

For: MAGNETIC RING UNIT AND MAGNETIC MEMORY DEVICE

#### **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

April 20, 2004

Sir:

In compliance with 37 CFR 1.56, Applicants call to the attention of the Patent and

Trademark Office the references listed on the attached PTO-1449.

A copy of each of the references is enclosed herewith.

In the event there are any fees due in connection with the filing of this paper, please charge Deposit Account No. <u>01-2340</u>.

Respectfully submitted,

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Enclosures: PTO-1449; References (7)

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Atty. Docket No. 040129

Applicant(s): Makoto KAWABATA, et al.

Filing Date: April 20, 2004

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# **U.S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Name	Date	Class	Subclass	Filing Date (If appropriate)
	AA						
	AB						

# FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Translation (Yes or No)
 AC	2003-31776	01/31/03	Japan	Yes-Abstract/Discussed in the specification
 AD	2002-299584	10/11/02	Japan	Yes-Abstract/Discussed in the specification
 AE	2001-84758	03/30/01	Japan	Yes-Abstract/Discussed in the specification
 AF				

### **OTHER DOCUMENTS**

	AG	JG. Zhu, et al.; "Ultrahigh density vertical magnetoresistive random access memory (invited)"; <i>Journal of Applied Physics</i> ; Vol.87; No. 9; May 1, 2000; pp. 6668-6673./Discussed in the specification.
	AH	M. Kläui et al.; "Vortex circulation control in mesoscopic ring magnets'; <i>Applied Physics Letters</i> ; Vol. 78; No. 21; May 21, 2001; pp. 3268-3270./Discussed in the specification.
	AI	M. Schneider, et al.; "Magnetic switching of single vortex permalloy elements" <i>Applied Physics Letters</i> ; Vol. 79; No. 19; November 5, 2001; pp. 3113-3115.
	AJ	R. Nakatani, et al; "Magnetization Reversal with In-Plane Magnetic Field in Asymmetric Ring Dots"; <i>Japanese Journal of Applied Physics</i> ; Vol. 42; No. 1; January 2003; pp. 100-101.
Examiner	.1	Date Considered